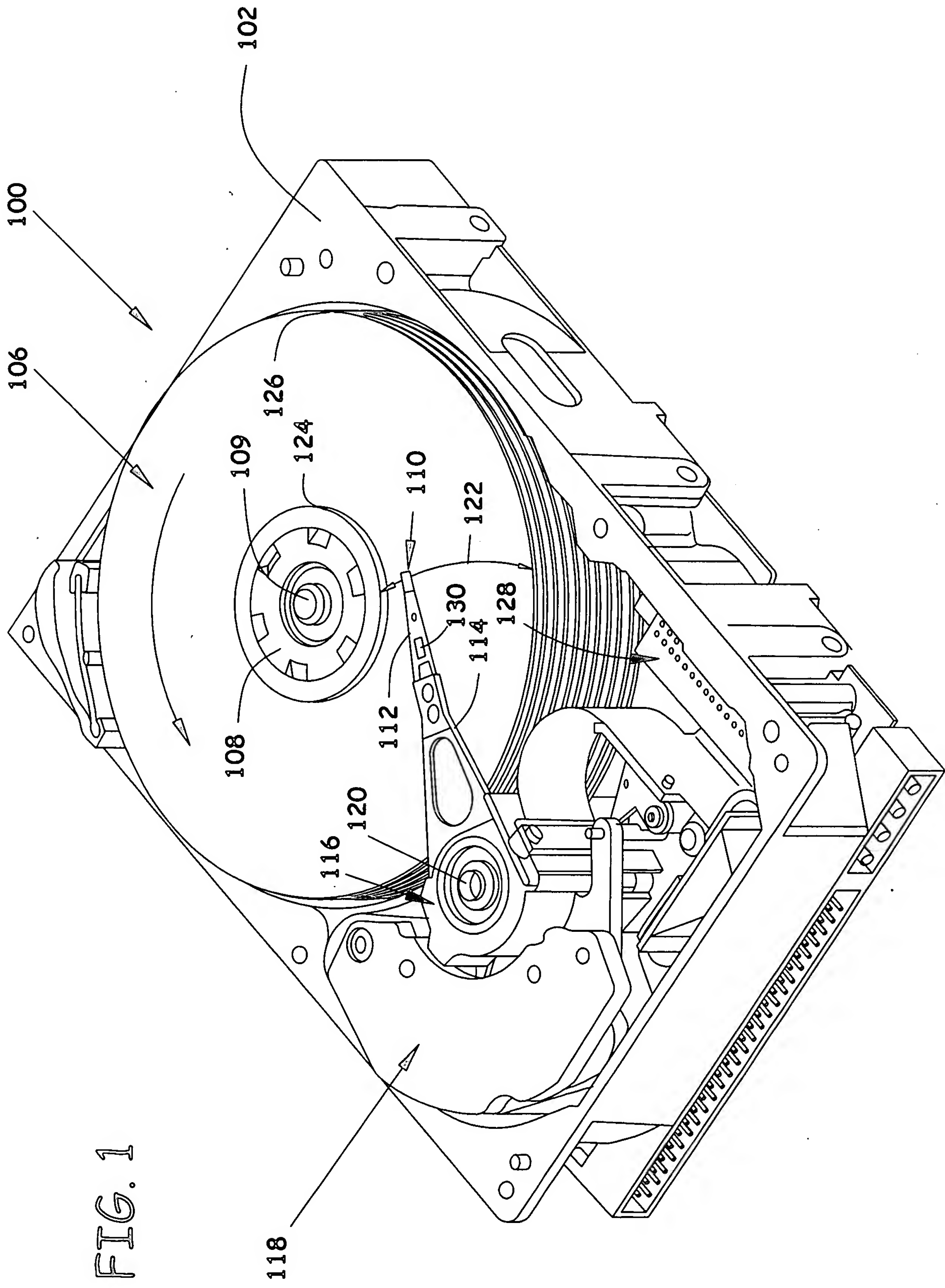


FIG. 1



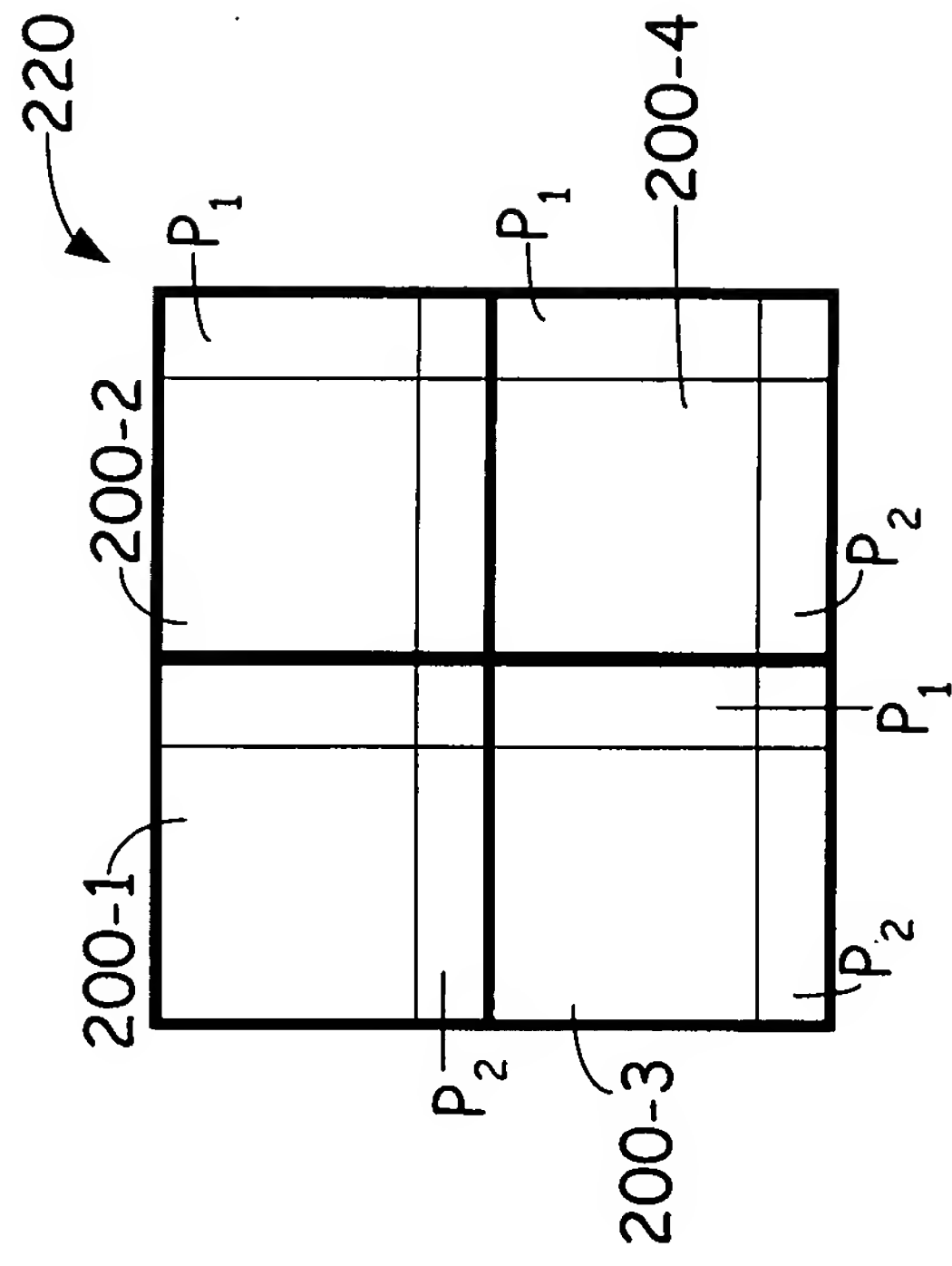
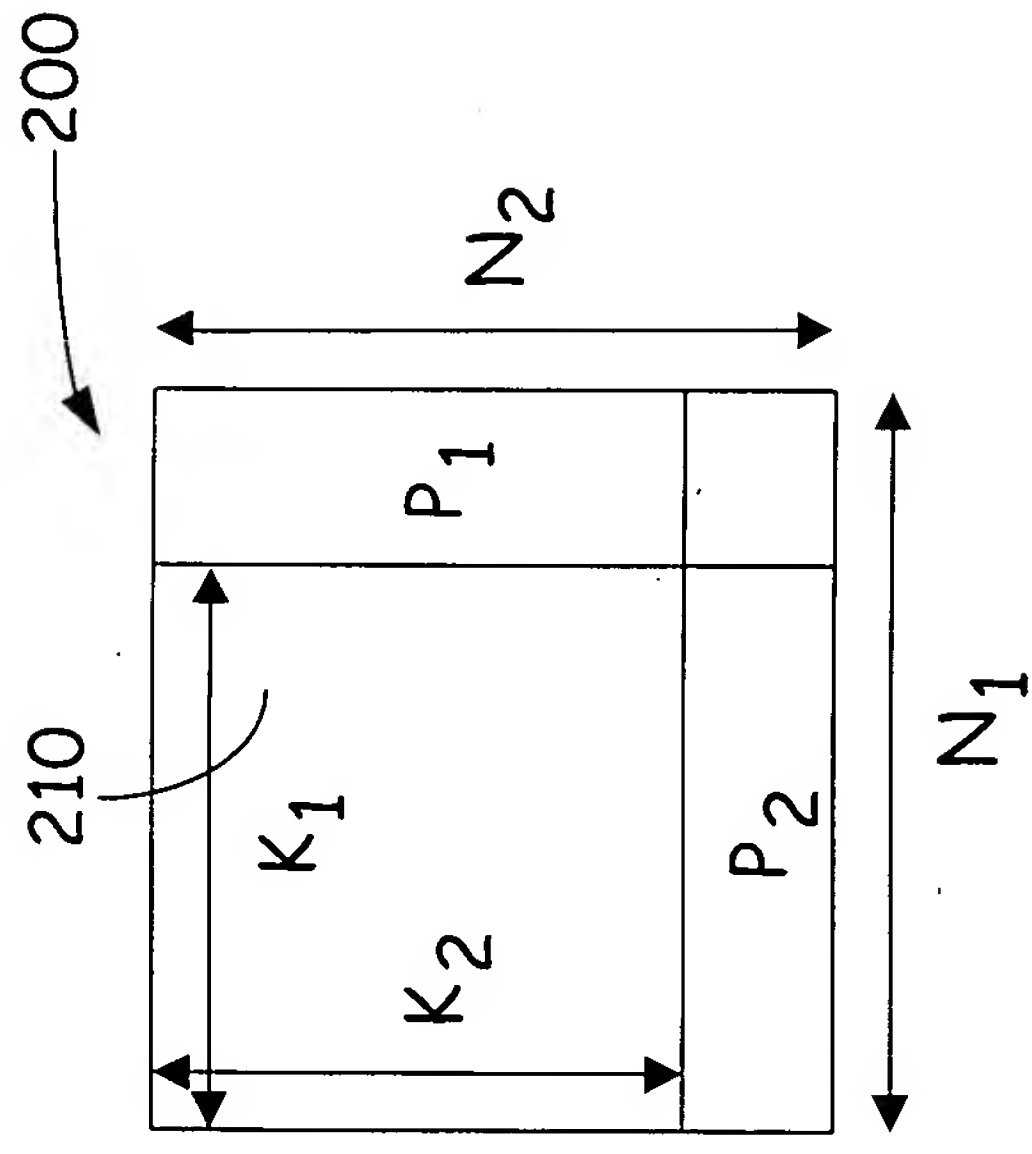


FIG. 2

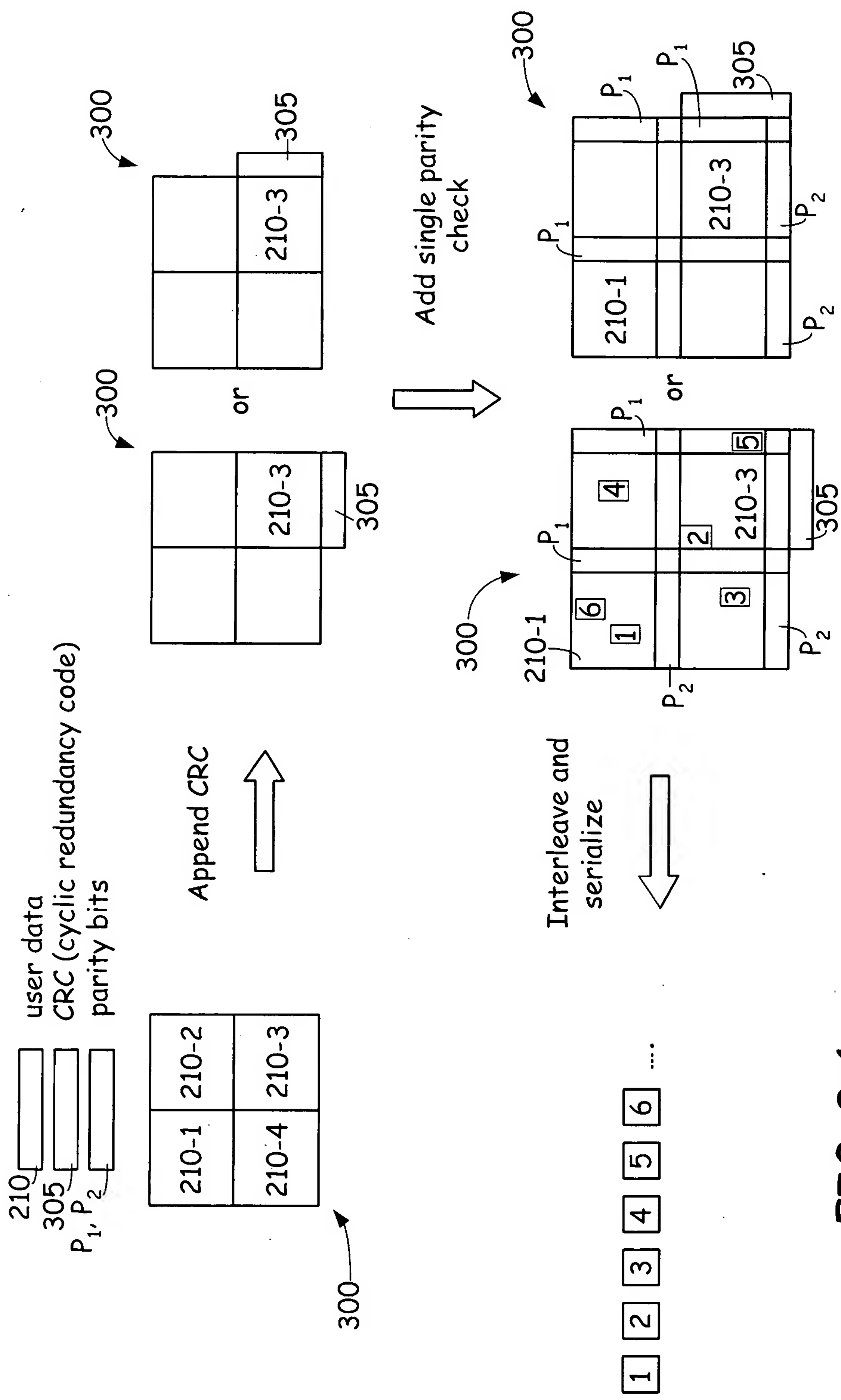


FIG. 3-1

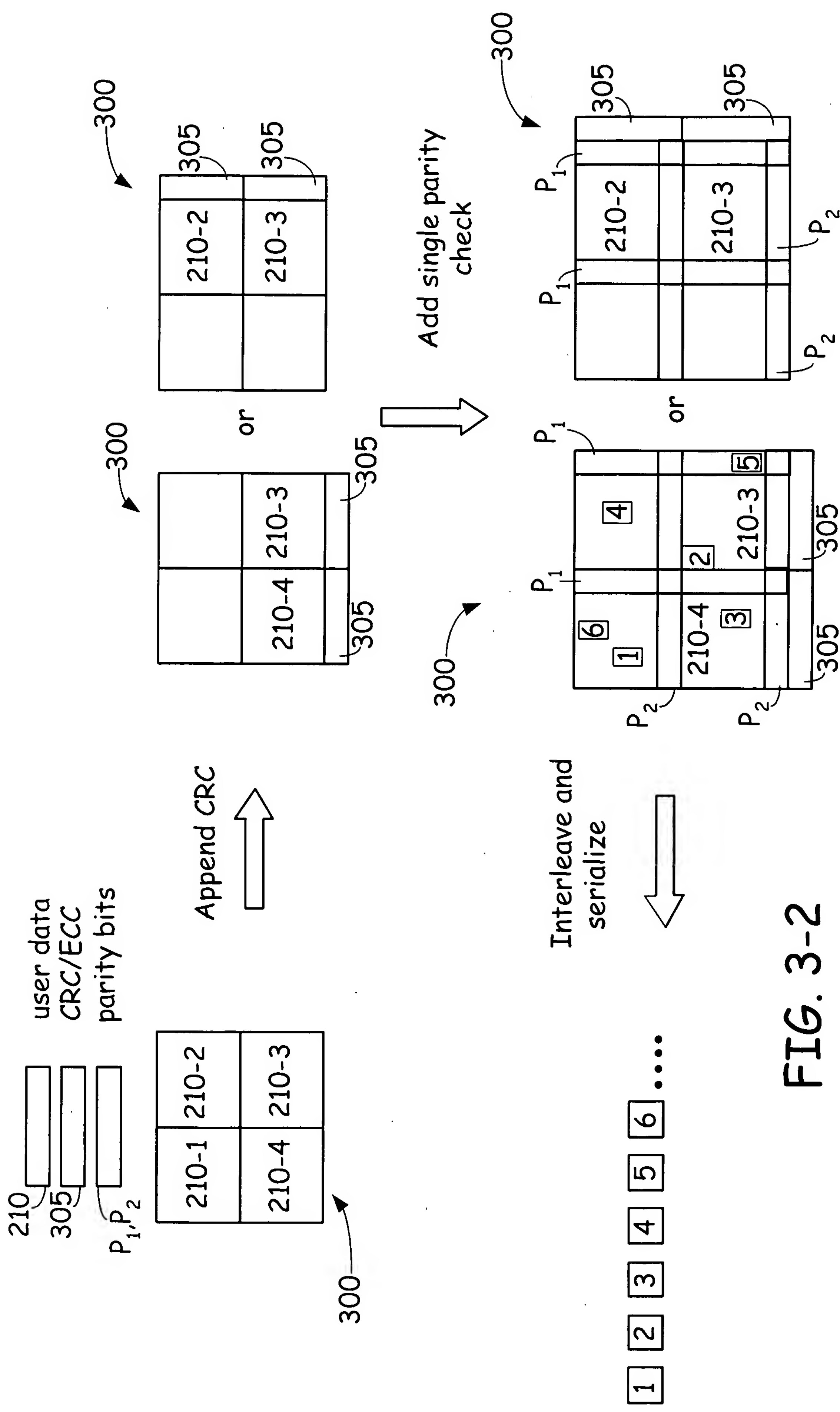


FIG. 3-2

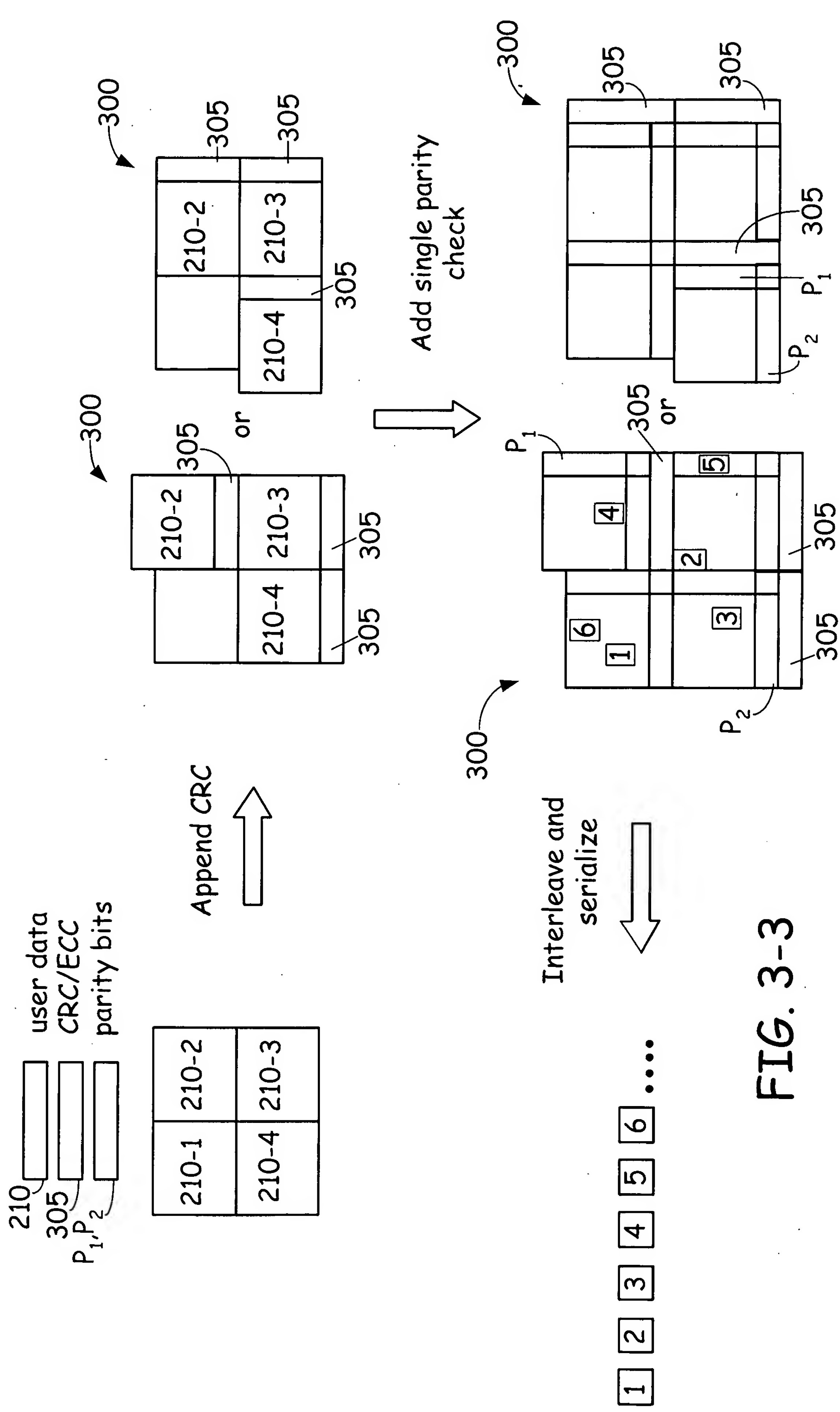
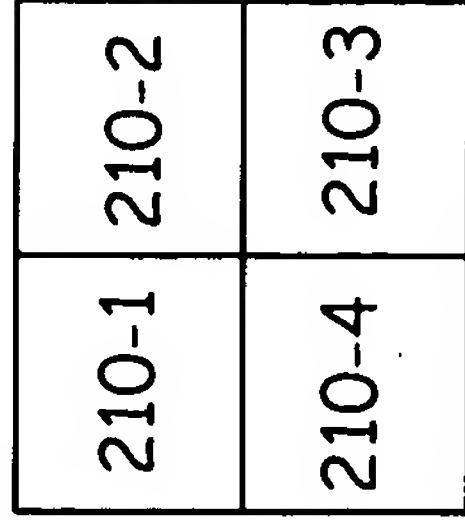
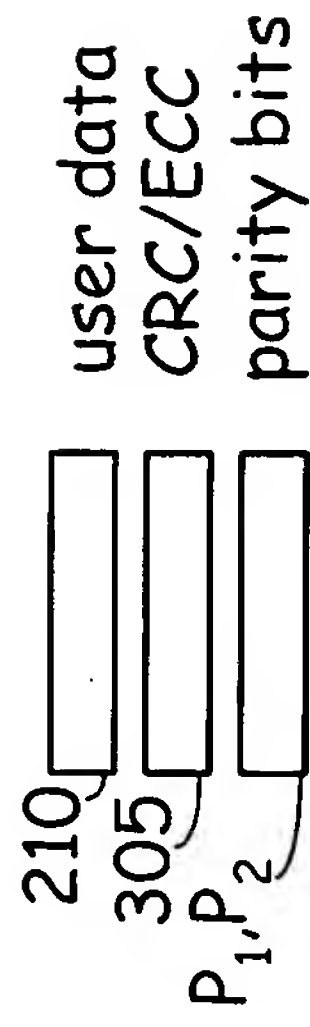
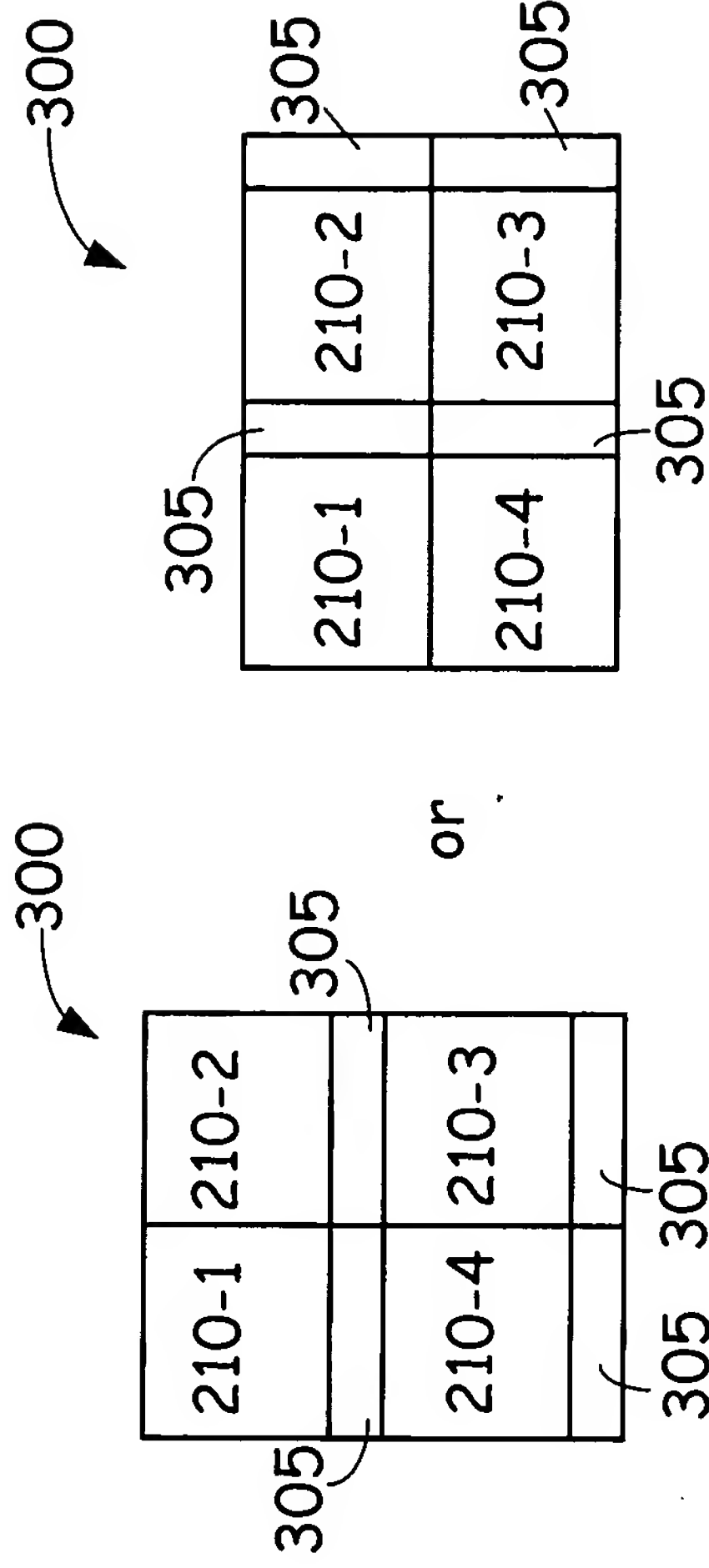


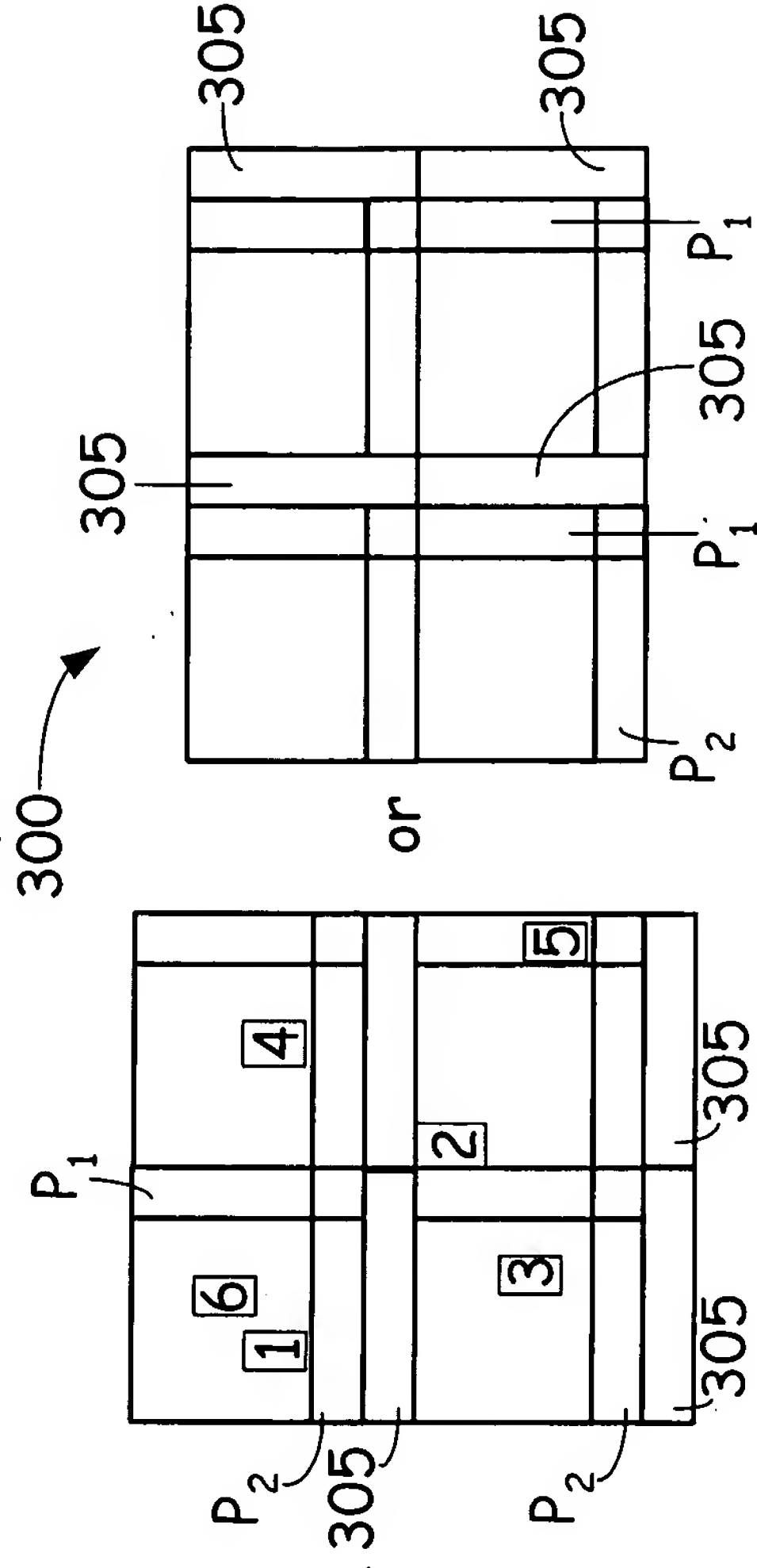
FIG. 3-3



Append CRC
→



↓
Add single parity
check



Interleave and
serialize
←



FIG. 3-4

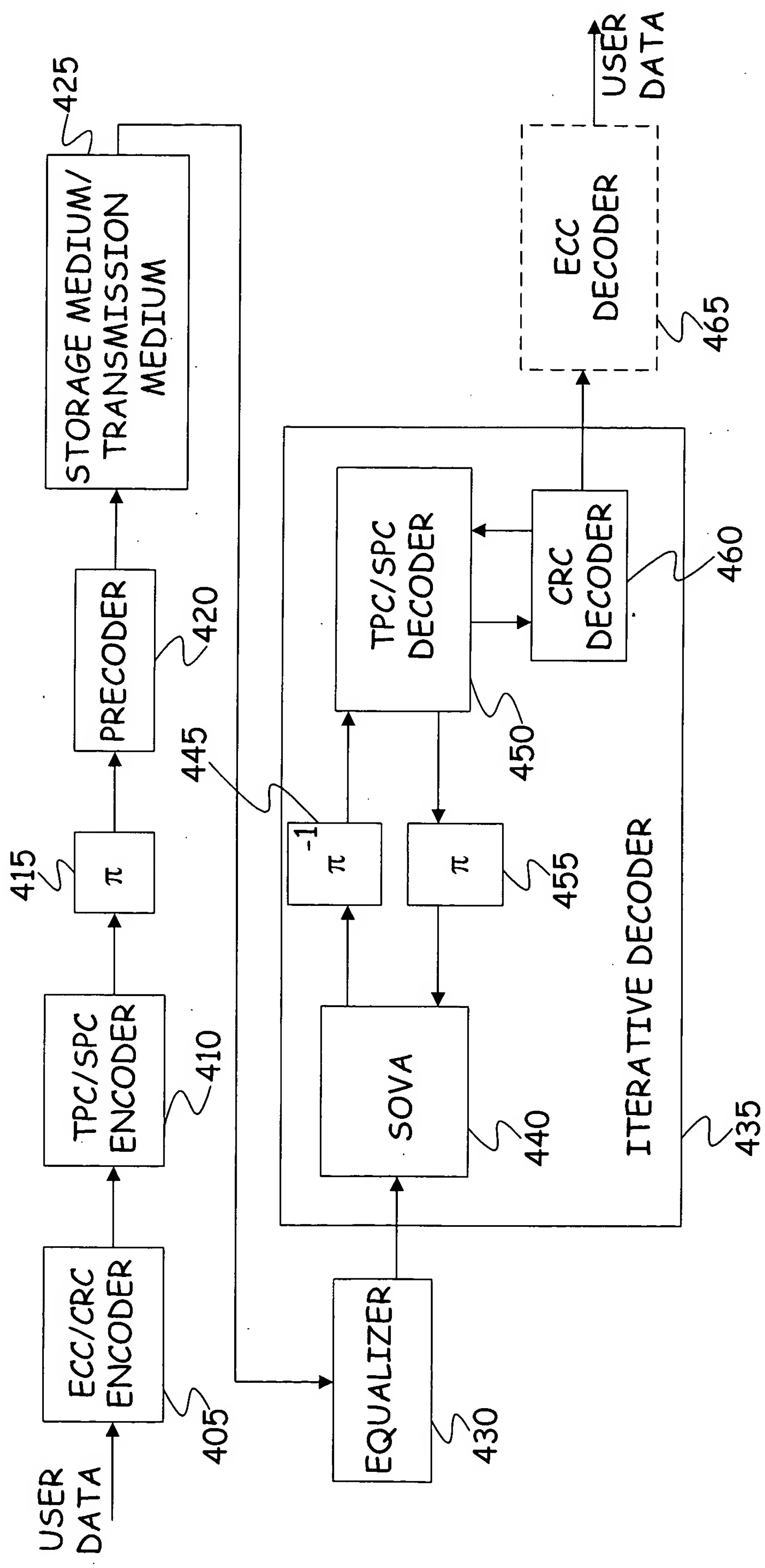


FIG. 4

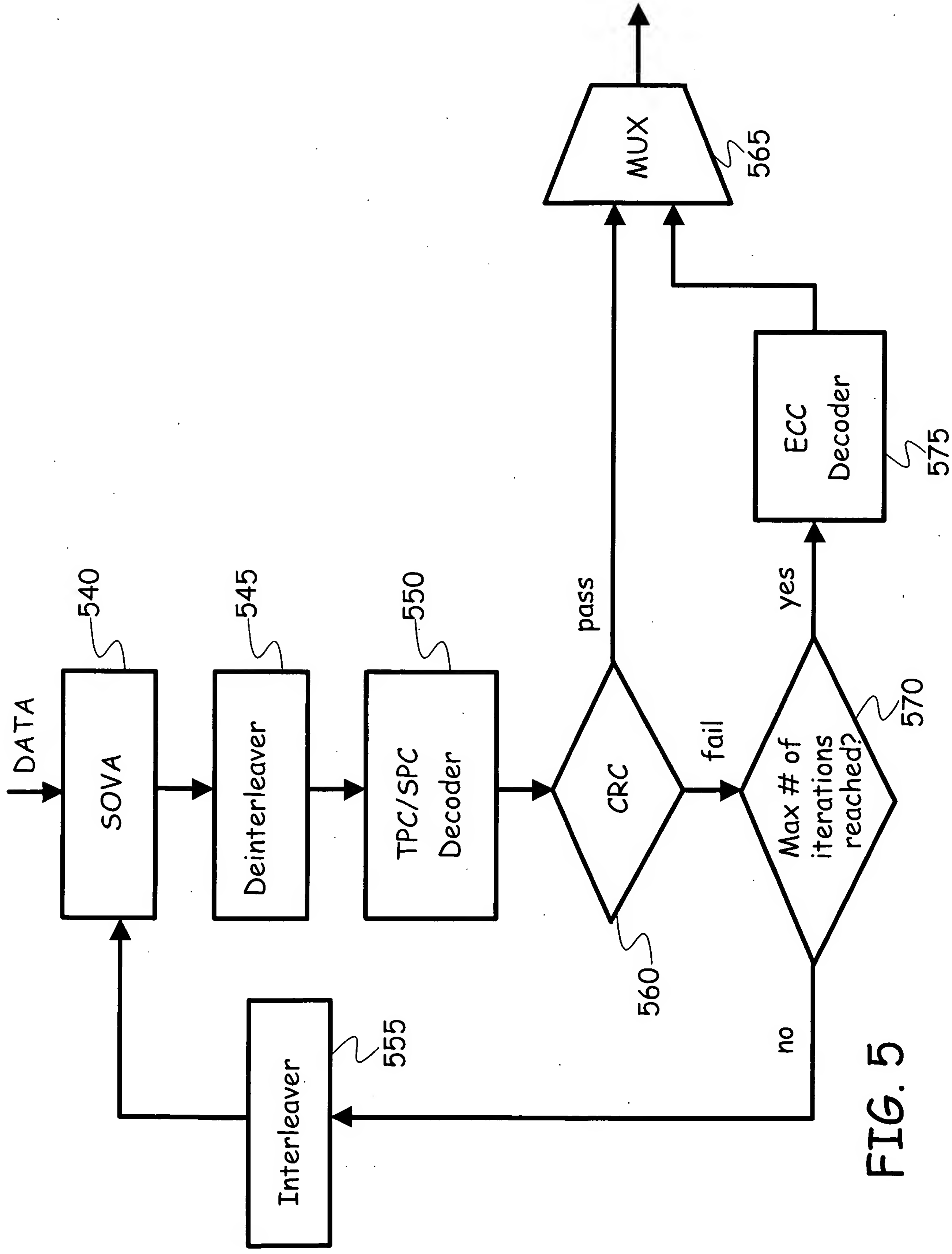
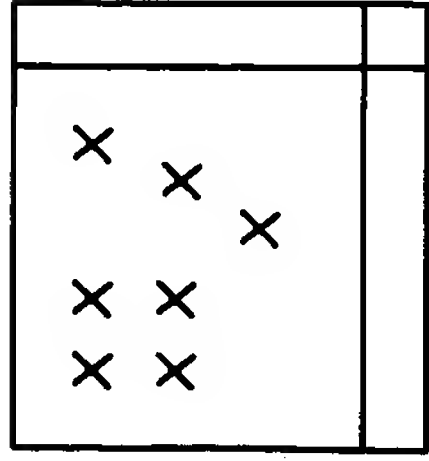
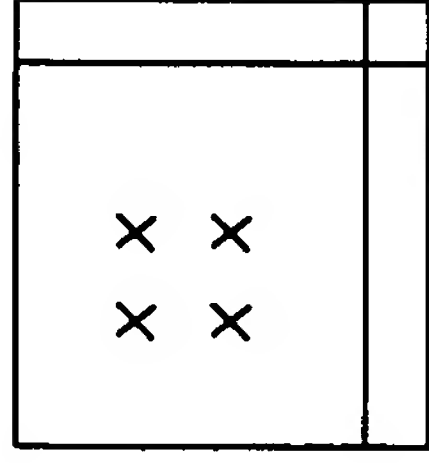


FIG. 5



Iteration
#1

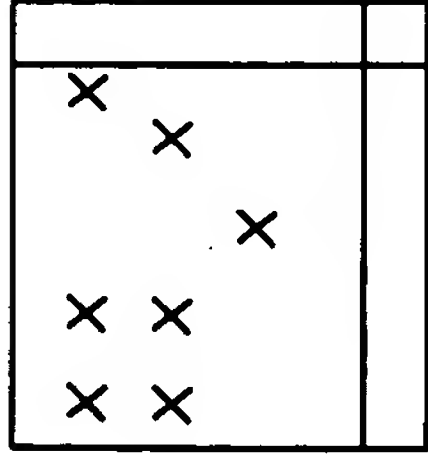
x = error bit



iteration
#2

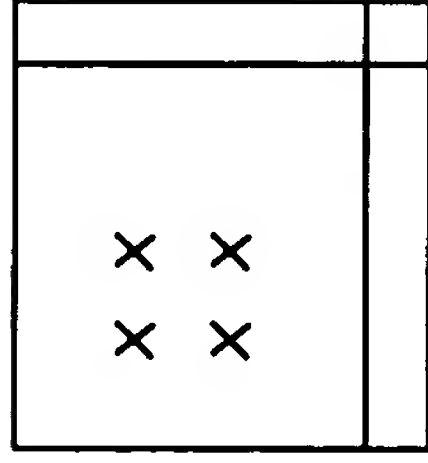
stop

FIG. 6-1



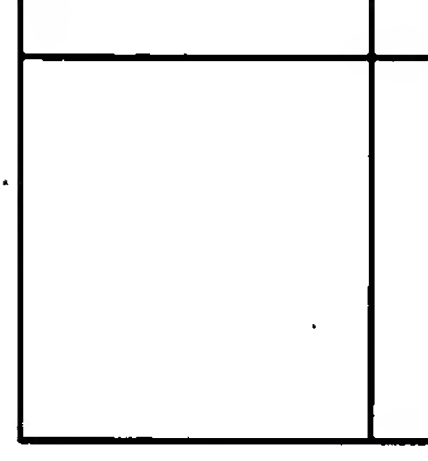
Iteration #1

x = error bit



iteration #2

....



iteration #N

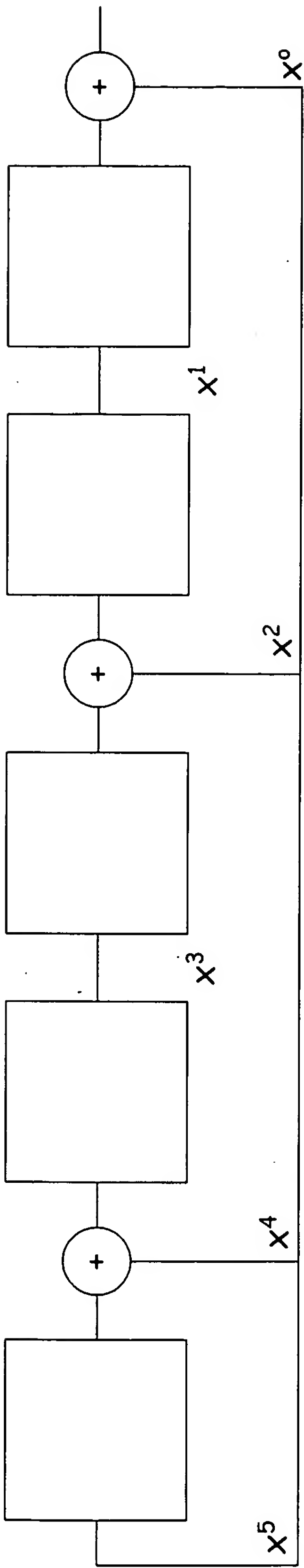
stop

FIG. 6-2

Input bits when creating CRC 10100001101000000

Input bits when creating CRC 1010000110101110

460



$$P(x) = x^5 + x^4 + x^2 + 1$$

FIG. 7

SNR = 6.4dB, 1600 codewords were simulated*

Termination Criterion	# of Error Events	# of wrong bits in those error events
Parity check Equation	44	<div>4 10 4 14 6 2 4 4 4 1 8 4 4 6 8 4 1 4 4 6</div> <div>12 2 4 2 4 4 4 2 10 3 4 4 4 4 6 4 8 4</div> <div>4 1 4</div>
CRC	5	1, 1, 2, 3, 1

* SOVA/TPCSPC system With fixed-point calculation.

FIG. 8

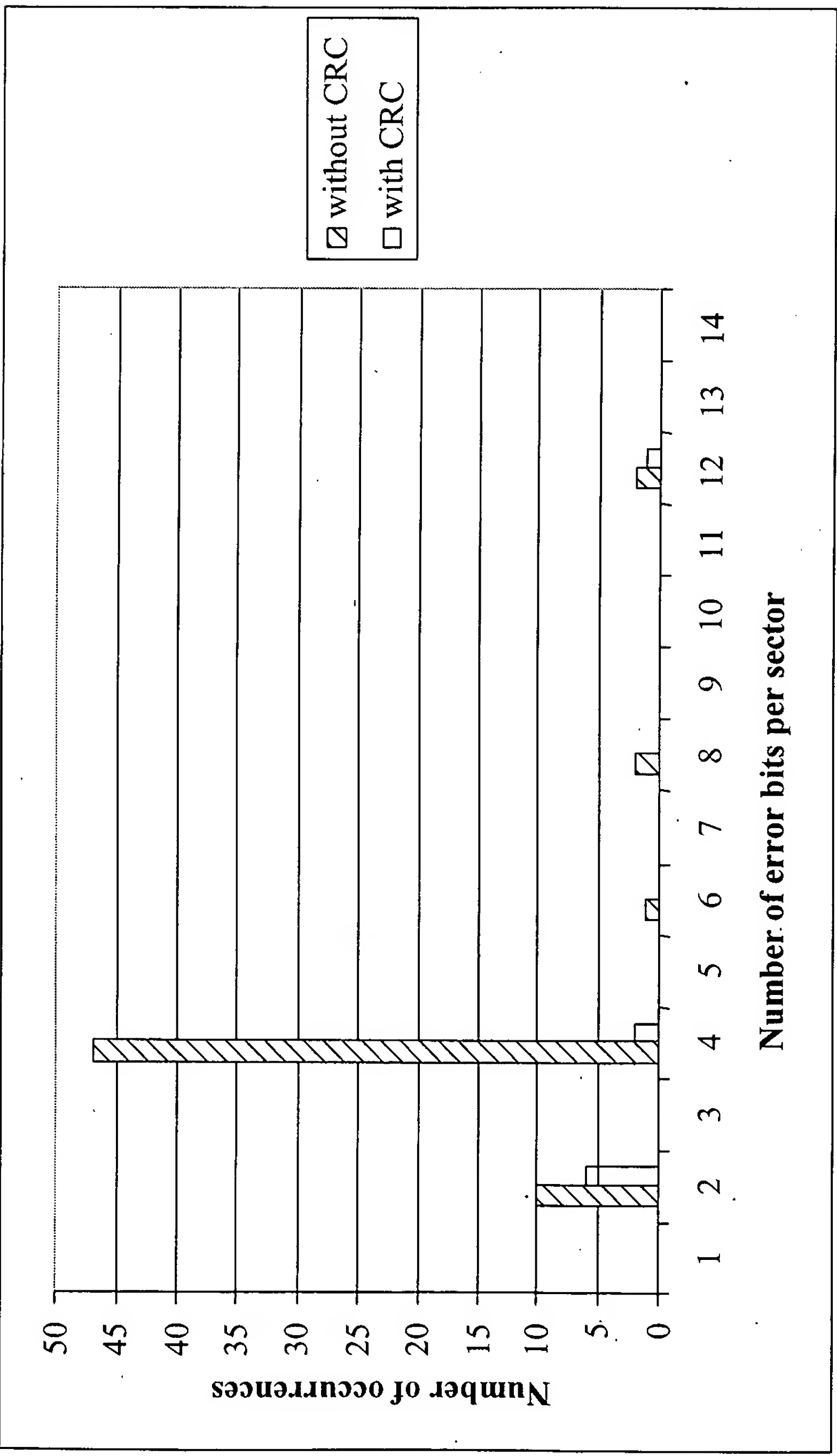


FIG. 9